Rulison Monitoring ResultsBattlement Mesa 35-12

Well: Gas production well, Battlement Mesa 35-12, API # 05–045–10412

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Operator: Noble Energy Incorporated

Sampler: U.S. Department of Energy, Office of Legacy Management, Grand Junction, CO.

Date of Sampling Event: 22 January 2009

A produced water sample was collected from production well BM 35-12.

Location data for the surface collection point and the sample location are given in Table 1. A description of each sample collected is listed in Table 2.

Table 1. Well BM 35-12, API # 05-045-10412

	Location	Sample Location							
Sample Point Location		Sea Level	Distance	(feet) from	Su	rface	Distance	Heading from GZ (deg)	
		elevation (feet)	N-S Section line	E-W Section line	Latitude (NAD 27)	Longitude (NAD 27)	from GZ (miles)		
Surface	NENW S35 T7S R95W	9238.0	765 FNL	2,131 FWL	39.398932	-107.965907	1.07	S70.4°W	
Subsurface	NENW S35 T7S R95W	-85.5	765 FNL	2,131 FWL	39.398932	-107.965907	1.07	S70.4°W	

Location data updated 29 January 2009.

NA: not available

The subsurface elevation is at the bottom of the well.

Link to Colorado Oil and Gas Conservation Commission information about well BM 35-12: http://oil-gas.state.co.us/cogis/FacilityDetail.asp?facid=04510412&type=WELL

Table 2. Sample Description

Sample Ticket No.	Location			Field		Samp			
	Name	Туре	Sub- type	Sample Matrix	Analytes	Vol. (L)	Comments		
HCY 495	BM 35-12	TS	TINT	Water	3H, 36Cl, Cl⁻	0.5	This well makes very little water, ≈ 350 mL was collected.		

TINT: treatment system internal location 3H: tritium 36CI: chlorine 36

mL: milliliter Cl⁻: chloride

The water sample was submitted to GEL Laboratories, Charleston, South Carolina, for analyses of chloride, chlorine 36, and tritium. The results are listed in Table 3.

Table 3. Produced Water Sample HCY-495 Results, GEL Laboratories

RESULTS REPORT RIN: 09012065 Site: Rulison Site Location: BM 35-12 Ticket Number: HCV 495 Report Date: 3/11/2009

Doromotor	Units	Sample		Dogult	Qualifiers			C4===d===d ¹
Parameter		Date	ID	Result	Lab	Data	QA	Standard ¹
H-3	pCi/L	01/22/2009	N001	78.1	U			20,000
Chloride-36	pCi/L	01/22/2009	N001	-26.6	U	J		
CHLORIDE	mg/L	01/22/2009	N001	19700		J		

¹ USEPA Primary Radionuclide Drinking Water Standard.